

Title (en)
APPARATUS FOR DISTRIBUTING FLOW

Title (de)
VORRICHTUNG ZUR VERTEILUNG EINER STRÖMUNG

Title (fr)
APPAREIL POUR DISTRIBUER UN ÉCOULEMENT

Publication
EP 2978518 A4 20161116 (EN)

Application
EP 14775338 A 20140325

Priority
• US 201313851708 A 20130327
• US 2014031652 W 20140325

Abstract (en)
[origin: US2014290492A1] Embodiments herein relate generally to distribution of flow into vessels containing packed beds of media. An example application of such beds is to pressure swing or temperature swing adsorption systems. Systems herein may include a vessel and a distributor for distributing flow into a lower portion of the vessel. The system may include: a vessel comprising a top head and a bottom head; and a bottom head feed/effluent nozzle. A lower distributor having at least one flow permitting surface is disposed within the vessel and encompasses an inlet of the bottom head feed/effluent nozzle. A flow gap is formed between a bottom portion of the lower distributor and the bottom head feed/effluent nozzle.

IPC 8 full level
B01D 53/047 (2006.01)

CPC (source: EP US)
B01D 53/0446 (2013.01 - EP US); **B01D 53/0462** (2013.01 - EP US); **B01D 53/047** (2013.01 - EP US); **F15D 1/02** (2013.01 - EP US)

Citation (search report)
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• [XI] US 2007261549 A1 20071115 - BUCHELLI ALBERTO [US], et al
• [X] US 2005155492 A1 20050721 - BAKSH MOHAMED S A [US], et al
• [X] CN 102309864 A 20120111 - CHINA PETROLEUM & CHEMICAL, et al
• [XI] EP 0719578 A1 19960703 - PRAXAIR TECHNOLOGY INC [US]
• See references of WO 2014160669A1

Designated contracting state (EPC)
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CA 2904721 A1 20141002; CA 2904721 C 20161018; CN 105102104 A 20151125; CN 105102104 B 20180330; EP 2978518 A1 20160203;
EP 2978518 A4 20161116; EP 2978518 B1 20211229; JP 2016517793 A 20160620; JP 6165316 B2 20170719; KR 101655442 B1 20160907;
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